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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/717,414	11/18/2003	Thomas W. Stone	10010940-1	7247	
7	590 11/01/2005		EXAM	INER	
AGILENT TECHNOLOGIES, INC.			LU, TONY W		
Legal Departm					
Intellectual Property Administration			ART UNIT	PAPER NUMBER	
P.O. Box 7599			2878		
Loveland, CO	80537-0599		DATE MAILED: 11/01/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

			TV.			
	Application No.	Applicant(s)				
	10/717,414	STONE, THOMAS W.				
Office Action Summary	Examiner	Art Unit				
	Tony Lu	2878				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	rith the correspondence addres	s			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MOI e, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this commur BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
,	s action is non-final.					
3) Since this application is in condition for allowa	·	·	rits is			
closed in accordance with the practice under	Ex paπe Quayle, 1935 C.L	J. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-17 is/are pending in the application						
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) 1-17 is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	or election requirement					
are subject to restriction and	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine		_				
	10)⊠ The drawing(s) filed on <u>18 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the	= ' '	· ·	4047.0			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	·		• •			
	Adminier. Note the attache	a Office Action of form 1 10-13	JZ.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea 	ts have been received. ts have been received in A prity documents have been nu (PCT Rule 17.2(a)).	Application No received in this National Stag	e			
* See the attached detailed Office action for a list	t of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>11/18/2003</u>. 		s)/Mail Date Informal Patent Application (PTO-152))			

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DETAILED ACTION

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Drawings

Figures 1a,1b and 2 should be labeled Prior Art. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9,11,13,14 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Stone et al US5692077.

With respect to claim 7, Stone et al disclose an optical routing system comprising a routing system capable of receiving an input electromagnetic radiation beam(input optical carrier) along an input direction and providing at least one output electromagnetic radiation beam(output optical carrier); and a beam diffraction element(230) optically disposed on an output side of the routing optical system and aligned to receive the at least one output electromagnetic radiation beam, the beam diffraction element being capable of selectively directing the at least one output electromagnetic radiation beam in order to render a direction of propagation of the selectively diffracted at least one output electromagnetic radiation beam substantially parallel to the input direction(fig.13).

With respect to claim 8, per the above discussion, Stone et al disclose the optical routing system further comprising a beam steering diffraction element(220) optically disposed before the routing optical system and capable of receiving the input electromagnetic radiation beam and steering the input electromagnetic radiation beam to the routing optical system.

With respect to claim 9, per the above discussion, Stone et al disclose the beam diffraction element comprises a diffraction grating(col.13).

With respect to claim 11, per the above discussion, Stone et al disclose the diffraction grating comprises a switched grating(fig.13).

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With respect to claim 13, per the above discussion, Stone et al disclose the steering diffraction element comprises a diffraction grating(col.13).

With respect to claim 14, per the above discussion, Stone et al disclose the beam diffraction element comprises a diffraction grating(col.13).

With respect to claim 16, per the above discussion, Stone et al disclose the diffraction grating comprises a switched grating(fig.13).

Stone et al inherently performs the claimed method steps(claims 1-6, note that 234 is an active/passive crosstalk suppressor, see fig.13).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10,12,15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stone et al US5692077.

With respect to 10,12,15, and 17, per the above discussion, Although Stone et al lack a clear inclusion of the diffraction grating comprises a pixellated diffraction grating and/or a pixellated switched grating, selecting a specific type of gratings would have been obvious to one of ordinary skill in the art in order to provide a better control to the modulation of the electromagnetic radiation.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Stone et al accordingly in order to provide a better control to the

modulation of the electromagnetic radiation entering and/or leaving the optical routing system.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure

- 1) Stone et al US5982515 disclose an optical routing system having switchable gratings.
- 2) Heritage et al US4655547 disclose an optical pulse shaping system comprising numbers of diffraction gratings for routing an input electromagnetic radiation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Lu whose telephone number is 5712728448. The examiner can normally be reached on M-F 9:00am- 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on 5712722444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800